

Algebra/Topology Seminar

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TRACE MODULES, RIGIDITY, AND ENDOMORPHISM RINGS

Thursday, February 8, 2018
1:15 p.m. in ES-143

ABSTRACT. The well-known trace map on matrices can be generalized to a map for a general module over a commutative ring. In this setting, the image of the trace map for an R -module M is its trace ideal, realized as the ideal generated by the homomorphic images of M in R . In this talk, I will discuss recent developments in the theory of trace ideals as well as applications in the understanding of centers of endomorphism rings and the existence of self-extensions for R -modules.